

IN THE CLAIMS:

Claim 1 (previously presented): A non-aqueous suspension, comprising:

(a) solid particles;

(b) liquid polyalkylene glycol into which the solid particles are dispersed; and

(c) a suspension stabilizer comprising a hydrogenated castor oil or wax, whereby the non-aqueous suspension of the solid particles is a pourable or pumpable liquid.

Claim 2 (original): The non-aqueous suspension according to claim 1 wherein the polyalkylene glycol is selected from the group consisting of polyethylene glycol, polypropylene glycol ethylene oxide propylene oxide block copolymers, and mixtures thereof.

Claim 3 (original): The non-aqueous suspension according to claim 1 wherein the amount of suspension stabilizer comprises between about 0.1 and about 5.0 percent by weight of the suspension.

Claim 4 (original): The non-aqueous suspension according to claim 1 wherein the solid particles comprise inorganic particles.

Claim 5 (original): The non-aqueous suspension according to claim 4 wherein the solid particles comprise boron compounds.

Claim 6 (original): The non-aqueous suspension according to claim 4 wherein the solid particles comprise alkaline earth peroxides.

Claim 7 (original): The non-aqueous suspension according to claim 4 wherein the solid particles comprise magnesium peroxide or calcium peroxide.

Claim 8 (original): The non-aqueous suspension according to claim 4 wherein the solid particles comprise iron oxide.

Claim 9 (original): The non-aqueous suspension according to claim 4 wherein the solid particles comprise calcium aluminate.

Claim 10 (original): The non-aqueous suspension according to claim 4 wherein the solid particles comprise calcium carbonate, magnesium carbonate, calcium oxide, magnesium oxide, calcium hydroxide and magnesium hydroxide and mixtures thereof.

Claim 11 (original): The non-aqueous suspension according to claim 4 wherein the particles comprise siliceous or ceramic particles.

Claim 12 (original): The non-aqueous suspension according to claim 1 wherein the solid particles comprise organic particles.

Claim 13 (original): The non-aqueous suspension according to claim 12 wherein the particles comprise gilsonite.

Claim 14 (original): The non-aqueous suspension according to claim 12 wherein the solid particles comprise lignosulfonates and the sodium, potassium, ammonium, calcium and magnesium salts thereof.

Claim 15 (original): The non-aqueous suspension according to claim 12 wherein the solid particles comprise ethylenediaminetetraacetic acid and the salts thereof.

Claim 16 (original): The non-aqueous suspension according to claim 1, further comprising one or more of the following additive materials selected from the group consisting of proppants, antifoaming agents, surfactants, corrosion inhibitors, pH buffers, and preservatives.

Claim 17 (original): The non-aqueous suspension according to claim 1 wherein the particles comprise an average particle size of about 0.1 to about 600 microns.

Claim 18 (original): The non-aqueous suspension according to claim 1 wherein the particles comprise an average particle size of 1 to 300 microns.

Claim 19 (original): The non-aqueous suspension according to claim 1 wherein the particles comprise an average particle size of 5 to 200 microns.

Claim 20 (previously presented): The non-aqueous suspension according to claim 1 wherein the liquid polyalkylene glycol further comprises between about 0.1 and 4% by weight of the liquid polyalkylene glycol of a thickener selected from the group consisting of partially neutralized polyacrylic acid, hydroxypropyl cellulose, hydroxypropyl guar, fumed silica, hydrophobic silica, and mixtures thereof.

Claim 21 (original): The non-aqueous suspension according to claim 1 wherein the particles comprise fertilizers selected from the group consisting of potassium nitrate, ammonium dihydrogenphosphate,

ammonium nitrate, sodium nitrate ammonium phosphate, ammonium polyphosphate, potassium hydrogen phosphate, disodium hydrogen phosphate, urea, and mixtures thereof.

Claim 22 (previously presented): The non-aqueous suspension according to claim 1 wherein the particles comprise pesticides selected from the group consisting of boric acid, butocarboxime, O,S,-dimethyl acetylphosphoramidothioate, dimethoate, disodium salt of dihydrogen S,S'-(2-dimethylaminotrimethylene)di(thiosulfate), O,O-dimethyl S-2-(1-methylcarbamoylethylthio)ethyl phosphorothioate, S-methyl (EZ)-N-(methylcarbamoyloxy)thioacetamide and mixtures thereof.

Claim 23 (previously presented): The non-aqueous suspension according to claim 1 wherein the particles comprise herbicides selected from the group consisting of 2,2-dichloropropionic acid (2,2-dichloropropirionic acid, sodium salt), ammonium sulfamate, 3,6-dicloro-o-anisic acid, cacodylic acid, 5-(2-chloro- $\alpha,\alpha,\alpha$ -trifluoro-p-tolyloxy)-N-methylsulfonyl-2-nitrobenzamide; N-(phosphonomethyl)glycine and mixtures thereof.

Claim 24 (currently amended): The non-aqueous suspension according to claim 1 wherein the particles comprise fungicides selected from the group consisting of copper sulfate, ethyl hydrogen phosphonate aluminum tris (O-ethyl phosphonate), methyl N-phenylacetyl-N-2, 6-xylyl-DL-alaninate, iminooctadine ( $C_{18}H_{41}N_7$ ), 1L-1,3,4/2,5,6-1-deoxy-2,3,4,5,6-pentahydroxycyclohexyloxy 2-amino-2,3,4,6-tetra-deoxy-4-( $\alpha$ -iminoglycino)- $\alpha$ -D-arabino-hexopyranoside and mixtures thereof.

Claim 25 (original): The non-aqueous suspension according to claim 1 wherein the solid particles comprise non-polymeric particles.

Claim 26 (original): The non-aqueous suspension according to claim 1 wherein the amount of the solid particles comprises between about 0.1 and about 75 percent by weight of the suspension.

Claim 28 (previously presented): A composition comprising environmental chemical; agricultural chemical; paper chemical; textile chemical; construction or building product ingredient comprising paint, joint cement, textured finishing compound; cosmetic ingredients; hair spray; gelatin substitute; ceramic material; cleaning composition; polish; ink; fire-fighting chemical; metal-working chemical; adhesive chemical; explosive chemical; flocculent; water treatment compound; binder chemical for sand; ores or

coal or oil field chemical that includes a non-aqueous suspension, comprising:

- (a) solid particles;
- (b) liquid polyalkylene glycol into which the solid particles are dispersed; and
- (c) a suspension stabilizer comprising a hydrogenated castor oil or wax, whereby the non-aqueous suspension of the solid particles is a pourable or pumpable liquid.

Claim 29 (original): The non-aqueous suspension according to claim 28 wherein the polyalkylene glycol is selected from the group consisting of polyethylene glycol, polypropylene glycol, ethylene oxide propylene oxide block copolymers, and mixtures thereof.

Claim 30 (original): The non-aqueous suspension according to claim 28 wherein the amount of suspension stabilizer comprises between about 0.1 and about 5.0 percent by weight of the suspension.

Claim 31 (original): The non-aqueous suspension according to claim 28 wherein the solid particles comprise inorganic particles.

Claim 32 (original): The non-aqueous suspension according to claim 31 wherein the solid particles comprise boron compounds.

Claim 33 (original): The non-aqueous suspension according to claim 31 wherein the solid particles comprise alkaline earth peroxides.

Claim 34 (original): The non-aqueous suspension according to claim 31 wherein the solid particles comprise magnesium peroxide or calcium peroxide.

Claim 35 (original): The non-aqueous suspension according to claim 31 wherein the solid particles comprise iron oxide.

Claim 36 (original): The non-aqueous suspension according to claim 31 wherein the solid particles comprise calcium aluminate.

Claim 37 (original): The non-aqueous suspension according to claim 31 wherein the solid particles comprise calcium carbonate, magnesium carbonate, calcium oxide, magnesium oxide, calcium hydroxide and magnesium hydroxide and mixtures thereof.

Claim 38 (original): The non-aqueous suspension according to claim 31 wherein the particles comprise siliceous or ceramic particles.

Claim 39 (original): The non-aqueous suspension according to claim 28 wherein the solid particles comprise organic particles.

Claim 40 (original): The non-aqueous suspension according to claim 39 wherein the particles comprise gilsonite.

Claim 41 (original): The non-aqueous suspension according to claim 39 wherein the solid particles comprise lignosulfonates and the sodium, potassium, ammonium, calcium and magnesium salts thereof.

Claim 42 (original): The non-aqueous suspension according to claim 39 wherein the solid particles comprise ethylenediaminetetraacetic acid and the salts thereof.

Claim 43 (original): The non-aqueous suspension according to claim 28, further comprising one or more of the following additive materials selected from the group consisting of proppants, antifoaming agents, surfactants, corrosion inhibitors, pH buffers, and preservatives.

Claim 44 (original): The non-aqueous suspension according to claim 28 wherein the particles comprise an average particle size of about 0.1 to about 600 microns.

Claim 45 (original): The non-aqueous suspension according to claim 28 wherein the particles comprise an average particle size of 1 to 300 microns.

Claim 46 (original): The non-aqueous suspension according to claim 28 wherein the particles comprise an average particle size of 5 to 200 microns.

Claim 47 (previously presented): The non-aqueous suspension according to claim 28 wherein the liquid polyalkylene glycol further comprises between about 0.1 and 4% by weight of the liquid polyalkylene glycol of a thickener selected from the group consisting of partially neutralized polyacrylic acid, hydroxypropyl cellulose, hydroxypropyl guar, fumed silica, hydrophobic silica, and mixtures thereof.

Claim 48 (original): The non-aqueous suspension according to claim 28 wherein the particles comprise fertilizers selected from the group consisting of potassium nitrate, ammonium dihydrogenphosphate,

ammonium nitrate, sodium nitrate ammonium phosphate, ammonium polyphosphate, potassium hydrogen phosphate, disodium hydrogen phosphate, urea, and mixtures thereof.

Claim 49 (previously presented): The non-aqueous suspension according to claim 28 wherein the particles comprise pesticides selected from the group consisting of boric acid, butocarboxime, O,S,-dimethyl acetylphosphoramidothioate, dimethoate, disodium salt of dihydrogen S,S'-(2-dimethylaminotrimethylene)di(thiosulfate), O,O-dimethyl S-2-(1-methylcarbamoylethylthio)ethyl phosphorothioate, S-methyl (EZ)-N-(methylcarbamoyloxy)thioacetamide and mixtures thereof.

Claim 50 (previously presented): The non-aqueous suspension according to claim 28 wherein the particles comprise herbicides selected from the group consisting of 2,2-dichloropropionic acid (2,2-dichloropropirionic acid, sodium salt), ammonium sulfamate, 3,6-dicloro-o-anisic acid, cacodylic acid, 5-(2-chloro- $\alpha,\alpha,\alpha$ -trifluoro-p-tolyloxy)-N-methylsulfonyl-2-nitrobenzamide; N-(phosphonomethyl)glycine and mixtures thereof.

Claim 51 (currently amended): The non-aqueous suspension according to claim 28 wherein the particles comprise fungicides selected from the group consisting of copper sulfate, ethyl hydrogen phosphonate aluminum tris (O-ethyl phosphonate), methyl N-phenylacetyl-N-2, 6-xylyl-DL-alaninate, iminoctadine ( $C_{18}H_{41}N_7$ ), 1L-1,3,4/2,5,6-1-deoxy-2,3,4,5,6- pentahydroxycyclohexyloxy 2-amino-2,3,4,6-tetradecoxy-4-( $\alpha$ -iminoglycino)- $\alpha$ -D-arabino-hexopyranoside and mixtures thereof.

Claim 52 (original): The non-aqueous suspension according to claim 28 wherein the solid particles comprise non-polymeric particles.

Claim 53 (original): The non-aqueous suspension according to claim 28 wherein the amount of the solid particles comprises between about 0.1 and about 75 percent by weight of the suspension.

Claim 54 (original): The non-aqueous suspension according to claim 28 wherein the amount of polyalkylene glycol comprises between about 24 and about 99 percent by weight of the suspension.

Claim 55 (previously presented): A method of formulating a non-aqueous suspension, comprising:

dispersing solid particles and a hydrogenated castor wax or oil into liquid polyalkylene glycol;  
and

mixing the solid particles, the hydrogenated castor wax or oil, and the liquid polyalkylene glycol until the solid particles are uniformly dispersed in the liquid polyalkylene glycol and the non-aqueous suspension of the solid particles is a pourable or pumpable liquid that achieves a Brookfield viscosity of at least 500 centipoise.

Claim 56 (original): The method according to claim 55 wherein the solid particles are dispersed in an amount from between about 0.1 and about 75 percent by weight of the suspension.

Claim 57 (original): The method according to claim 55 wherein the hydrogenated castor wax or oil is dispersed in an amount between about 0.1 and about 5.0 percent by weight of the suspension.

Claim 58 (original): The method according to claim 55 wherein the amount of polyalkylene glycol comprises between about 24 and about 99 percent by weight of the suspension.

Claim 59 (original): The method according to claim 55 wherein the polyalkylene glycol is selected from the group consisting of polyethylene glycol, polypropylene glycol, ethylene oxide propylene oxide block copolymers, and mixtures thereof.

Claim 60 (original): The method according to claim 55 wherein the solid particles comprise inorganic particles.

Claim 61 (original): The method according to claim 60 wherein the solid particles comprise boron compounds.

Claim 62 (original): The method according to claim 60 wherein the solid particles comprise alkaline earth peroxides.

Claim 63 (original): The method according to claim 60 wherein the solid particles comprise magnesium peroxide or calcium peroxide.

Claim 64 (original): The method according to claim 60 wherein the solid particles comprise iron oxide.

Claim 65 (original): The method according to claim 60 wherein the solid particles comprise calcium aluminate.

Claim 66 (original): The method according to claim 60 wherein the solid particles comprise calcium carbonate, magnesium carbonate, calcium oxide, magnesium oxide, calcium hydroxide and magnesium hydroxide and mixtures thereof.

Claim 67 (original): The method according to claim 60 wherein the particles comprise siliceous or ceramic particles.

Claim 68 (original): The method according to claim 55 wherein the solid particles comprise organic particles.

Claim 69 (original): The method according to claim 68 wherein the particles comprise gilsonite.

Claim 70 (original): The method according to claim 68 wherein the solid particles comprise lignosulfonates and the sodium, potassium, ammonium, calcium and magnesium salts thereof.

Claim 71 (original): The method according to claim 68 wherein the solid particles comprise ethylenediaminetetraacetic acid and the salts thereof.

Claim 72 (original): The method according to claim 55, further comprising one or more of the following additive materials selected from the group consisting of proppants, antifoaming agents, surfactants, corrosion inhibitors, pH buffers, and preservatives.

Claim 73 (original): The method according to claim 55 wherein the particles comprise an average particle size of about 0.1 to about 600 microns.

Claim 74 (original): The method according to claim 55 wherein the particles comprise an average particle size of 1 to 300 microns.

Claim 75 (original): The method according to claim 55 wherein the particles comprise an average particle size of 5 to 200 microns.

Claim 76 (previously presented): The method according to claim 55 wherein the liquid polyalkylene glycol further comprises between about 0.1 and 4% by weight of the liquid polyalkylene glycol of a thickener selected from the group consisting of partially neutralized polyacrylic acid, hydroxypropyl cellulose, hydroxypropyl guar, fumed silica, hydrophobic silica, and mixtures thereof.



Claim 77 (original): The method according to claim 55 wherein the particles comprise fertilizers selected from the group consisting of potassium nitrate, ammonium dihydrogenphosphate, ammonium nitrate, sodium nitrate ammonium phosphate, ammonium polyphosphate, potassium hydrogen phosphate, disodium hydrogen phosphate, urea, and mixtures thereof.

Claim 78 (previously presented): The method according to claim 55 wherein the particles comprise pesticides selected from the group consisting of boric acid, butocarboxime, O,S,-dimethyl acetylphosphoramidothioate, dimethoate, disodium salt of dihydrogen S,S'-(2-dimethylaminotrimethylene)di(thiosulfate), O,O-dimethyl S-2-(1-methylcarbamoylethylthio)ethyl phosphorothioate, S-methyl (EZ)-N-(methylcarbamoyloxy)thioacetamide and mixtures thereof.

Claim 79 (previously presented): The method according to claim 55 wherein the particles comprise herbicides selected from the group consisting of 2,2-dichloropropionic acid (2,2 dichloropropirionic acid, sodium salt), ammonium sulfamate, 3,6-dicloro-o-anisic acid, cacodylic acid, 5-(2-chloro- $\alpha,\alpha,\alpha$ -trifluoro-p-tolyloxy)-N-methylsulfonyl-2-nitrobenzamide; N-(phosphonomethyl)glycine and mixtures thereof.

Claim 80 (currently amended): The method according to claim 55 wherein the particles comprise fungicides selected from the group consisting of copper sulfate, ethyl hydrogen phosphonate aluminum tris (O-ethyl phosphonate), methyl N-phenylacetyl-N-2, 6-xylyl-DL-alaninate, iminoctadine ( $C_{18}H_{41}N_7$ ), 1L-1,3,4/2,5,6-1-deoxy-2,3,4,5,6- pentahydroxycyclohexyloxy 2-amino-2,3,4,6-tetradexy-4-( $\alpha$ -iminoglycino)- $\alpha$ -D-arabino-hexopyranoside and mixtures thereof.-2,3,4,6-tetradexy-4-( $\alpha$ -iminoglycino)- $\alpha$ -D-arabino-hexopyranoside and mixtures thereof.

Claim 81 (original) The method according to claim 55 wherein the solid particles comprise non-polymeric particles.